

AMENDMENTS TO THE SPECIFICATION

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Referring is made to figure 6, figure 6 shows a cross-section view of an array of modulator provided in the second embodiment of this invention. An array of modulator 600 comprises three modulators: modulator 602, modulator 604 and modulator 606. Every modulator is a color changeable pixel. The structure of modulators is the same as the one provided in embodiment 1. At least one control circuit 608 is connected to the third plates 6023, 6043 and 6063. It can apply to all third plates together or separately. The voltage added to the third plates 6023, 6043 and 6063 is either identical or different. Since the second plates 6022, 6042 and 6062 are movable reflective plates, they are influenced by the voltages applied on the third plates 6023, 6043 and 6063. The distance between the first plate 6021, 6041 and 6061 and the second plate 6022, 6042 and 6062, that is, the length D of the cavity 610 is changed. The lengths of the cavities 6102, 6104 and 6106, that is, d1, d2 and d3 are therefore different. As shown in formula 1.1, the wavelength of the reflected light is altered due to the change of the length of cavity. Light with different color, such as red light, green light or blue light is obtained.

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Besides, it is known that when a driver circuit 612 is connected to modulator 602, 604 and 606, a voltage is added between the first plates 6021, 6041 and 6061 and the second plates 6022, 6042 and 6062 together or separately. The second plate 6022, 6042 and 6062 deform and fall towards the first plate 6021, 6041 and 6061. All or part of the modulators (602, 604 and 606) are “closed”. No visible light is reflected, or light with different color is obtained.